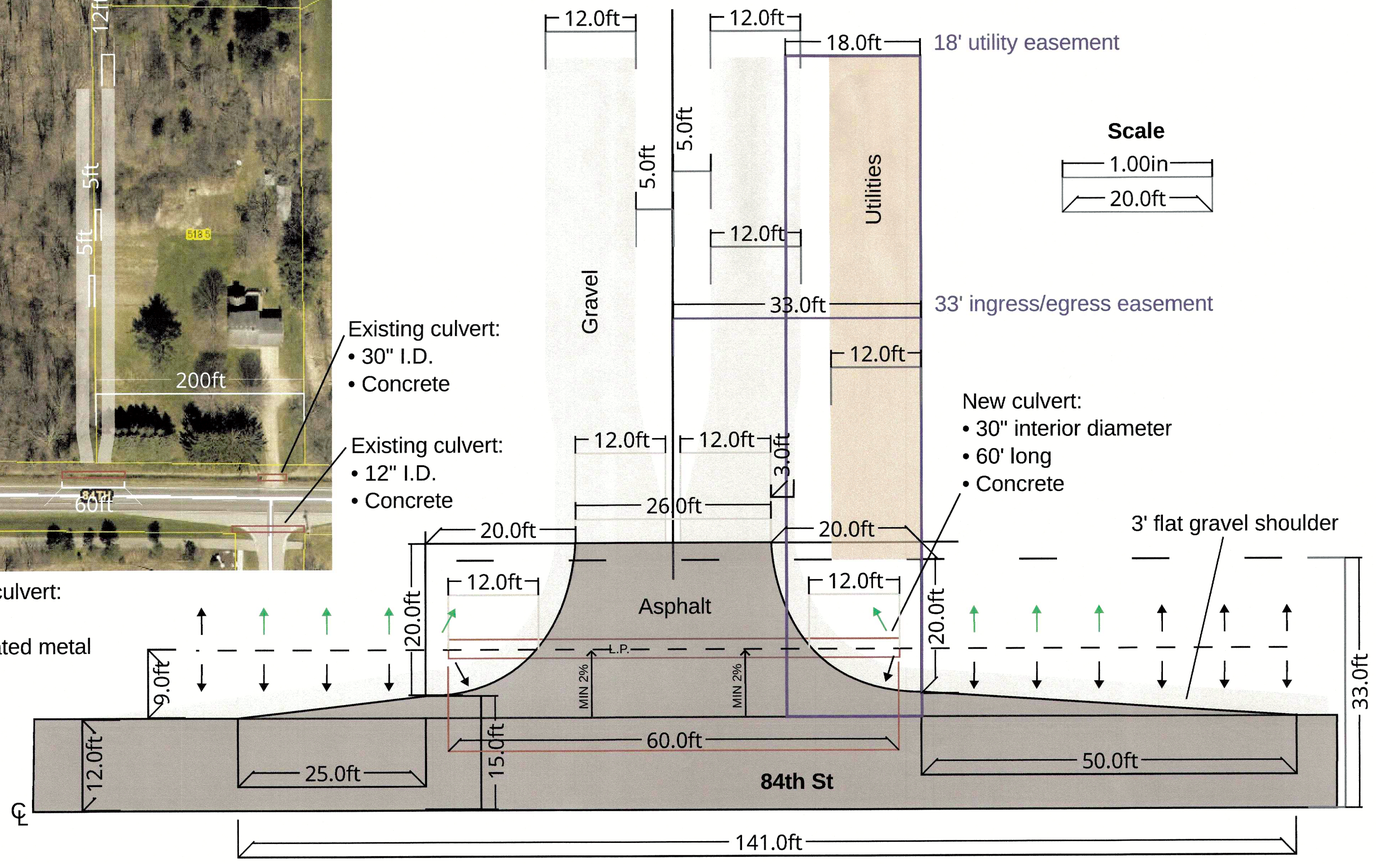
Nearby culverts and driveways

Existing culvert:
- 30" I.D.
- Concrete

Existing culvert:
- 12" I.D.
- Concrete

Existing culvert:
- 30" I.D.
- Corrugated metal



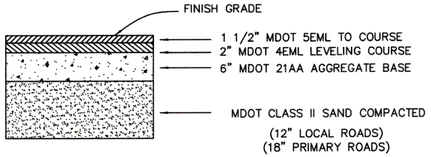
Scale
1.00in
20.0ft

New culvert:
- 30" interior diameter
- 60' long
- Concrete

3' flat gravel shoulder

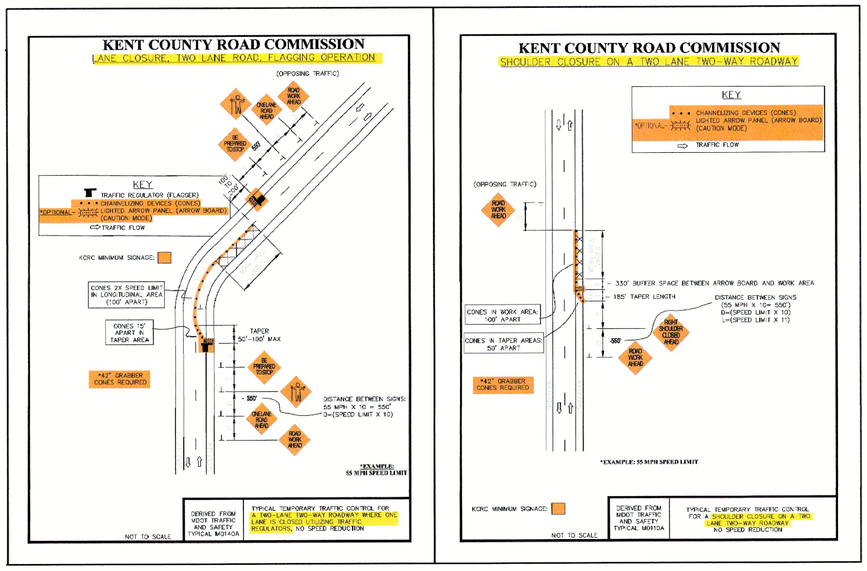
↑ Indicates an expected uphill gradient, either natural or from setting the grade. Water flow is into the ditch and typically west (to lower elevation).

↑ Around the culvert outlet areas, this slope should be 3:1 (indicated with green arrows).


FINISH GRADE
1 1/2" MDOT 5EML TO COURSE
2" MDOT 4EML LEVELING COURSE
6" MDOT 21AA AGGREGATE BASE
MDOT CLASS II SAND COMPACTED
(12" LOCAL ROADS)
(18" PRIMARY ROADS)

PAVING IN ROW
NO SCALE

811 Know what's below. Call before you dig.


KENT COUNTY ROAD COMMISSION
LANE CLOSURE, TWO LANE ROAD, FLAGGING OPERATION
KENT COUNTY ROAD COMMISSION
SHOULDER CLOSURE ON A TWO LANE TWO-WAY ROADWAY

K.C.R.C. GENERAL NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE ACCORDING TO THE CURRENT MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION.
2. DRIVEWAY APPROACH TO BE BITUMINOUS OR CONCRETE. CONCRETE SHALL BE USED WHEN THE DISTANCE BETWEEN THE NEW CURB AND THE HIGHWAY RIGHT OF WAY, OR FRONT EDGE OF SIDEWALK, IS 15 FEET OR LESS.
3. CONCRETE CURB AND GUTTER TO BE B-2 OR AS APPROVED BY THE KENT COUNTY ROAD COMMISSION (K.C.R.C) ENGINEER.
4. WHERE POOR SOIL CONDITIONS EXIST, THE DEPTH OF THE GRAVEL SAND SUBBASE BETWEEN THE NEW CURB AND EXISTING PAVEMENT, SHALL BE DETERMINED BY THE ENGINEER.
5. NO ADVERTISING SIGN OR OR DEVICE SHALL BE PLACED IN, OR SOMETHING INTO THE EXISTING HIGHWAY RIGHT OF WAY.
6. KENT COUNTY ROAD COMMISSION IS TO BE NOTIFIED 48 HOURS PRIOR TO THE START OF CONSTRUCTION; EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS. THIS AGENCY WILL INSPECT ALL WORK WITHIN THE HIGHWAY RIGHT OF WAY. CONCRETE FORMS MUST BE INSPECTED BY THE K.C.R.C. INSPECTOR BEFORE CONCRETE IS POURED.
7. PRIOR TO THE START OF CONSTRUCTION, IT WILL BE MANDATORY FOR THE APPLICANT OR CONTRACTOR TO HAVE IN PLACE THE NECESSARY SAFETY TRAFFIC SIGNS CONES. BARRICADES AND ANY OTHER SAFETY DEVICE TO INSURE SAFETY TO THE PUBLIC. NO LANE CLOSURES WILL BE ALLOWED FROM NOVEMBER 1ST TO APRIL 1ST UNLESS APPROVED BY THE K.C.R.C. ENGINEER.
8. ALL DISTURBED AREAS ARE TO BE LEVELED AND RESTORED WITH TOPSOIL; AND SEEDED WITH AN APPROVED TURF SEED MIX, AND ALLOWED TO GROW TO A MOWABLE CONDITION SO AS TO PREVENT FUTURE EROSION OR MAINTENANCE PROBLEMS. SLOPES THAT ARE 1 ON 2 OR STEEPER SHALL BE SODDED.
9. THE HIGHWAY RIGHT OF WAY SHALL NOT BE USED FOR PRIVATE BUSINESS PURPOSES.
10. NO PARKING OF VEHICLES, EQUIPMENT, OR MATERIAL STORAGE PERMITTED WITHIN HIGHWAY RIGHT OF WAY.
11. THE OWNER MUST PROVIDE FOR ADEQUATE DRAINAGE FROM THE PARKING AREAS, AND CLEAR SAME WITH THE KENT COUNTY ROAD COMMISSION. ISSUANCE OF PERMIT DOES NOT ALLEVIATE OWNER OF THIS RESPONSIBILITY.
12. CULVERTS, STORM SEWERS, OR OTHER DRAINAGE STRUCTURES SHALL BE INSPECTED BY THE KENT COUNTY ROAD COMMISSION INSPECTOR BEFORE BACKFILL IS PLACED.
13. WATER FROM THIS PROPERTY SHALL NOT DRAIN ONTO COUNTY OR STATE HIGHWAY RIGHT OF WAY WITHOUT APPROVAL.
14. RESURFACE EXISTING PUBLIC ROADWAY AS NECESSARY TO FIT DRIVE APPROACH, CORRECT CROWN, CORRECT DRAINAGE, OR REPAIR DAMAGE BY CONSTRUCTION. SAWCUT REMOVE ALL CURB, CONCRETE, AND BITUMINOUS AS REQUIRED BY THE KENT COUNTY ROAD COMMISSION.
15. PROPERTY OWNER IS RESPONSIBLE FOR OBTAINING A SOIL EROSION & SEDIMENTATION CONTROL PERMIT FOR ANY EARTH CHANGE GREATER THAN ONE ACRE, OR WITHIN 500 FEET OF A REGULATED WATER OF THE STATE.
16. A UTILITY PERMIT MUST BE OBTAINED FOR PLACEMENT AND HOOKUP OF UTILITIES (I.E. WATER, GAS, OIL, SEWER, TELEPHONE, ELECTRIC, CABLE TV, ETC.) IN THE HIGHWAY RIGHT OF WAY.
17. CONTACT "MISS DIG" TOLL FREE AT 1-800-482-7171 OR 811 THREE (3) DAYS PRIOR TO THE START OF CONSTRUCTION, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS.
18. ADDITIONAL WORK (BITUMINOUS PAVING, GRADING, ETC.) MAY BE REQUIRED BY THE KENT COUNTY ROAD COMMISSION INSPECTOR TO CORRECT POOR WORKMANSHIP AND/OR ALLEVIATE DRAINAGE PROBLEMS.
19. ALL WORK IN THE HIGHWAY RIGHT OF WAY APPROVED BY A COMMERCIAL DRIVE/PRIVATE STREET APPROACH PERMIT MUST BE COMPLETED WITHIN ONE YEAR OF PERMIT ISSUANCE DATE.
20. PERFORMANCE BONDS, LETTERS OF CREDIT, AND BANK CASHIERS CHECKS (IN LIEU OF A BOND) MUST REMAIN IN EFFECT THROUGH ONE WINTER SEASON TO SPRING SEASON AFTER THE COMPLETION OF WORK ALLOWED UNDER THE PERMIT.
21. KENT COUNTY ROAD COMMISSION RESERVES THE RIGHT TO TERMINATE OR REVOKE ANY PERMIT IF ANY TERMS, CONSTRUCTION, OR SAFETY REQUIREMENTS AS DEEMED NECESSARY BY THE ROAD COMMISSION OR AS SHOWN ON THE APPROVED PERMIT PLAN ARE NOT MET, OR RESOLVED IN A TIMELY MANNER.
22. ANY PAVING PERFORMED IN THE HIGHWAY RIGHT OF WAY BETWEEN NOVEMBER 1ST TO MAY 1ST REQUIRES PRIOR APPROVAL FROM THE KCRC ENGINEER.
23. ALL OVERCUTS IN SAWCUT PAVEMENT MUST BE FILLED AND SEALED WITH A SEALER APPROVED BY THE KENT COUNTY ROAD COMMISSION.
24. ANY LANDSCAPING IN THE HIGHWAY RIGHT OF WAY MUST BE NOTED ON THE PERMIT/DRIVE PLAN APPROVED BY THE KCRC.

(REVISED FEBRUARY – 2022)

KENT COUNTY ROAD COMMISSION
JUL 18 2025
ENGINEERING DEPT.

NOTE: No work requiring lane closures shall be performed between Nov. 1st and April 1st unless approved by the Kent County Road Commission.

NOTE: Contractor must contact and coordinate with K.C.R.C. for lane closure procedures.

THIS PERMIT FOR DRIVE ACCESS ONLY - A UTILITY PERMIT AND SOIL EROSION PERMIT MAY BE REQUIRED.

KENT COUNTY ROAD COMMISSION DRIVEWAY PLAN FOR:

DRIVEWAY LOCATION: 5185 84th St SE

APPROVED:
Erik Easterly (Jul 17, 2025 10:46 EDT) — Jul 17, 2025
DIRECTOR – ENGINEERING — DATE

Jul 15, 2025
KCRC DIRECTOR OF TRAFFIC AND SAFETY — DATE

2025-049168
PERMIT NO. ISSUED — 7/21/25 DATE

PLAN NUMBER: 25-026